

Assigned DOGM File No.: S/003/0083

DOGM Lead: Lynn Kinzler

Permit Fee \$ 150.00 Ck # 3066

0001

Task ID# 2994

STATE OF UTAH  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS AND MINING  
1594 West North Temple Suite 1210  
Box 145801  
Salt Lake City, Utah 84114-5801  
Telephone: (801) 538-5291 Fax: (801) 359-3940

APPROVED

JAN 07 2010

DIV. OIL GAS & MINING

**NOTICE OF INTENTION TO COMMENCE SMALL MINING OPERATIONS**

The informational requirements of this form are based on provisions of the Mined Land Reclamation Act, Title 40-8, Utah Code Annotated 1987, and the General Rules as promulgated under the Utah Minerals Regulatory Program.

"Small Mining Operations" mining operations which have a disturbed area of five or less surface acres at any time.

\*\*\*\*\*

**I. GENERAL INFORMATION** (Rule R647-3-104)

- Name of Mine: Precision Rock
- Legal name of entity (or individual) for whom the permit is being requested: Precision Development Group Inc  
Mailing Address: 5725 W. 4600 S.  
City, State, Zip: Hooper Utah 84315  
Phone: 801 388 6943 Fax: 801 731 8941  
E-mail Address: bingham94@hotmail.com

Type of Business: Corporation ☒ LLC ( ) Sole Proprietorship (dba) ( )  
Partnership ( ) General \_\_\_\_\_ or \_\_\_\_\_ limited

Or:

Individual ( )

**Entity must be registered (and maintain registration) with the State of Utah, Division of Corporations (DOC) [www.commerce.utah.gov](http://www.commerce.utah.gov).**

Are you currently registered to do business in the State of Utah? ☒ Yes ☐ No

Entity # \_\_\_\_\_

If no, contact [www.commerce.utah.gov](http://www.commerce.utah.gov) to renew or apply.

Local Business License # \_\_\_\_\_ (if required)

Issued by: County Box Elder or City \_\_\_\_\_

- Contact Person(s)**  
Name: Mark Bingham Title: President  
Address: 5725 W. 4600 S.  
City, State, Zip: Hooper Utah 84315  
Phone: 801 388 6943 Fax: 801 731 8941  
Emergency, Weekend, or Holiday Phone: 801 388 6943  
E-mail Address: bingham94@hotmail.com

Contact person to be notified for: permitting ☒ surety ☒ Notices ☒ (please check all that apply)

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Name: Beau Montgomery Title: VP  
 Address: \_\_\_\_\_  
 City, State, Zip: \_\_\_\_\_  
 Phone: 801 430 2082 Fax: 801 731 8941  
 Emergency, Weekend, or Holiday Phone: 801 430 2082  
 E-mail Address: wve.montgomery@yahoo.com

DIV. OIL GAS &amp; MINING

Contact person to be notified for: permitting ( ) surety ( ) Notices ( ) (please check all that apply)

Registered Utah Agent (as identified with the Utah Department of Commerce) (if individual leave blank):

Name: Mark Bingham  
 Address: - same -  
 City, State, Zip: \_\_\_\_\_  
 Phone: - same - Fax: \_\_\_\_\_  
 E-mail Address: \_\_\_\_\_

4. If Business is a Sole Proprietor:

N/A

Name of Owner: \_\_\_\_\_ Title: \_\_\_\_\_  
 Business Address: \_\_\_\_\_  
 City, State, Zip: \_\_\_\_\_  
 Phone: \_\_\_\_\_ Fax: \_\_\_\_\_  
 E-mail Address: \_\_\_\_\_

If Business is a Corporation:

Name of Officers: Mark Bingham Title: Pres  
Beau Montgomery Title: V.P.  
Greg Watts Title: V.P.

Headquarters Address: 5725 W. 4600 S.  
 City, State, Zip: Hooper Utah 84315  
 Headquarters Phone: 801-985-6212 Fax: 801 731 8941  
 E-mail Address: bingham94@hotmail.com

If Business is a Limited Liability Company: Member Managed ■ Manager Managed ■

Name of 1<sup>st</sup> Member/Manager: \_\_\_\_\_ Title: \_\_\_\_\_  
 Business Address: \_\_\_\_\_  
 City, State, Zip: \_\_\_\_\_  
 Phone: \_\_\_\_\_ Fax: \_\_\_\_\_  
 E-mail Address: \_\_\_\_\_

Name of 2<sup>nd</sup> Member/Manager: \_\_\_\_\_  
 Business Address: \_\_\_\_\_  
 City, State, Zip: \_\_\_\_\_  
 Phone: \_\_\_\_\_ Fax: \_\_\_\_\_  
 E-mail Address: \_\_\_\_\_

If Business is a Partnership:

Name of Partner: \_\_\_\_\_  
 Business Address: \_\_\_\_\_  
 City, State, Zip: \_\_\_\_\_  
 Phone: \_\_\_\_\_ Fax: \_\_\_\_\_  
 E-mail Address: \_\_\_\_\_



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## DIV. OIL GAS &amp; MINING

5. **Ownership of Land Surface:**

Private (Fee) ☒ Public Domain (BLM) ☐ National Forest (USFS) ☐  
 State Trust Land/School Sections ☐ State Sovereign Lands ☐  
 Other (please describe): \_\_\_\_\_

Name BGM LLC Address 5725 W. 4600 S. Hooper Utah  
84315

Name \_\_\_\_\_ Address \_\_\_\_\_

Name \_\_\_\_\_ Address \_\_\_\_\_

Name \_\_\_\_\_ Address \_\_\_\_\_

6. **Ownership of Minerals:**

Private (Fee) ☒ Public Domain (BLM) ☐ National Forest (USFS) ☐  
 State Trust Land/School Sections ☐ State Sovereign Lands ☐  
 Other (please describe): \_\_\_\_\_

Name BGM LLC Address 5725 W. 4600 S. Hooper, Utah 84315

Name \_\_\_\_\_ Address \_\_\_\_\_

Name \_\_\_\_\_ Address \_\_\_\_\_

Name \_\_\_\_\_ Address \_\_\_\_\_

BLM Lease or Project File Number(s) and/or USFS assigned Project Number(s): \_\_\_\_\_

BLM Claim Numbers \_\_\_\_\_

Utah State Lease Number(s): \_\_\_\_\_

Name of Lessee(s) \_\_\_\_\_

7. **Have the above surface and mineral owners been notified in writing?**

Yes ☒ No ☐

If no, why not? \_\_\_\_\_

\_\_\_\_\_

*Please be advised that if State Trust Lands are involved, notification to the Division of Oil, Gas and Mining alone does not satisfy the notification requirements of Mineral Leases upon State Trust Lands. Exploration or mining activity on State Trust Lands requires a minimum of 60 days notice to the Trust Lands Administration **prior** to commencing any activities. Please contact the School Institutional Trust Lands Administration (SITLA) at (801) 538-5508 for notification requirements.*

8. **Does the Entity have legal right to enter and conduct mining operations on the land covered by this notice?** Yes ☒ No ☐

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II. **PROJECT LOCATION & MAP** (Rule R647-3-105)1. **Project Location** (legal description):

County(ies): Box Elder County  
Lot 5 West Little Mt. Subdivision  
 \_\_\_\_ 1/4, of \_\_\_\_ 1/4, of SE 1/4: Section: 14 Township: 10N Range: 4W  
 \_\_\_\_ 1/4, of \_\_\_\_ 1/4, of \_\_\_\_ 1/4: Section: \_\_\_\_ Township: \_\_\_\_ Range: \_\_\_\_  
 \_\_\_\_ 1/4, of \_\_\_\_ 1/4, of \_\_\_\_ 1/4: Section: \_\_\_\_ Township: \_\_\_\_ Range: \_\_\_\_

UTM East \_\_\_\_\_ (if known) UTM North \_\_\_\_\_ (If known)

Name of Quad Map for Location: \_\_\_\_\_

2. **Location and Operations maps** must be plotted at a scale to accurately identify locational landmarks and operations details. All maps must include a north arrow, scale, appropriate labels, and title box including the mine name, township, range and section.

a. The **general location map** must be the scale of a USGS 7.5 minute series map or equivalent (1"=2000') and identify new or existing access roads.

b. The **operations map** (1"=200' or other scale as determined necessary by the Division) must be labeled and identify:

- The area to be disturbed;
- The location of any existing or proposed operations including access roads, drill holes, trenches, pits, shafts, cuts, or other planned activities; and
- Any adjacent previous disturbance for which the operator is not responsible.

(Contact the Division for a list of consultants and land surveyors for mapping assistance.)

## 3. The proposed (5 acre or less) disturbed area (including access/haul roads) should be marked in the field ON THE GROUND with metal T-Posts (or with some other marker of equal effectiveness). Markers should be appropriately spaced so that the next marker in either direction is clearly visible with the naked eye.

III. **OPERATION PLAN** (Rule R647-3-106)1. **Type of mining:** ☒ Surface ☐ Underground2. **Mineral(s) to be mined:** sand, gravel, & rock3. **Amount of material** to be extracted, moved, or proposed to be moved: est. 250 - 300,000 tons/year4. Will any **water, liquid chemicals, reagents, or other solutions** be used, produced or discharged as part of the mining or milling process?

☒ Yes ☐ No ☐ If yes, please describe (add extra pages if needed) \_\_\_\_\_

water - dust control

5. Provide a brief **description of the proposed mining operation** and onsite processing facilities (add extra pages if necessary).

drill/blast, jaw, cone  
& screen with loader, excavator, dozer  
to size aggregates



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6. ■ **New Road(s):** Length N/A (ft) Width N/A (ft)

7. ■ **Improved Road(s):** Provide a description of the improvements that need to be made to existing roads to access the site, including the Length 250 (ft) and Width 20 (ft) of improvements.

8. Total project surface **acreage to be disturbed:** 5 (acres) PLEASE SPECIFY EXACT ACREAGE - (this will be used to determine surety bond amount – see #VI).

9. Proposed **startup date** (month, year) ASAP

10. Proposed **completion date**, if known (month, year) 2d+ years

#### IV. OPERATION AND RECLAMATION PRACTICES (Rule R647-3-107, 108 & 109)

The reclamation and operation obligation is to keep the area clean and safe, minimize hazards to public safety, return the land to a useful condition, and reestablish at least 70 percent of the premining vegetative ground cover. To accomplish this, the Permittee / Operator will need to perform reclamation concurrently, or at the completion (within one (1) year) of mining. Please refer to The Practical Guide to Reclamation in Utah, available at [www.ogm.utah.gov](http://www.ogm.utah.gov).

1. *Keep the mining operation in a safe, clean, and environmentally stable condition.*
2. *Permanently seal all shafts and tunnels to prevent unauthorized or accidental entry.*
3. *Plug drill holes with a five foot cement surface plug. Holes that encounter fluids are to be plugged in the subsurface to prevent aquifer contamination.*
4. *Construct berms, fences, or barriers, when needed, above highwalls and excavations.*
5. *Remove, isolate, or neutralize all toxic materials in a manner compatible with federal and state regulations.*
6. *Remove all waste or debris from stream channels.*
7. *Dispose of any trash, scrap metal, wood, machinery, and buildings.*
8. *Conduct mining activities so as to minimize erosion and control sediment.*
9. *Reclaim all roads that are not part of a permanent transportation system.*
10. *Stockpile topsoil and suitable overburden prior to mining.*
11. *Stabilize highwalls by backfilling or rounding to 45 degrees or less, where feasible; reshape the land to near its original contour, and redistribute the topsoil and suitable overburden.*
12. *Properly prepare seedbed to a depth of six inches by pocking, ripping, discing, or harrowing. Leave the surface rough.*
13. *Reseed disturbed areas with adaptable species. (The Division recommends a mixture of species of grass, forb, and browse seed, and will provide a specific species list if requested.)*
14. *Plant the seed with a rangeland or farm drill, or broadcast the seed. Fall is the preferred time to seed.*

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**V. VARIANCE REQUEST (Rule R647-3-110)****Any variance request must be approved in writing by the Division**

Any planned deviations from Rules R647-3-107, Operation Practices, R647-3-108, Hole Plugging Requirements, or R647-3-109, Reclamation Practices, as summarized above (see IV. Operation and Reclamation Practices Item # 1-14), should be identified below listing applicable rule number. Give justification for the variance(s) and alternate methods or measure to be utilized. Written approval from the Division will be given, if the proposed alternative methods to be used are consistent with the Act.

Are variances being requested? Yes ☐ **No** ☒

1<sup>st</sup> Variance Requested

Item # \_\_\_\_\_ Applicable Rule # (i.e. R647-3-109.10 (if you did not want trenches & pits reclaimed))

Justification: \_\_\_\_\_

Alternate methods or measure to be utilized: \_\_\_\_\_

2<sup>nd</sup> Variance Requested

Item # \_\_\_\_\_ Applicable Rule # \_\_\_\_\_

Justification: \_\_\_\_\_

Alternate methods or measure to be utilized: \_\_\_\_\_

3<sup>rd</sup> Variance Requested

Item # \_\_\_\_\_ Applicable Rule # \_\_\_\_\_

Justification: \_\_\_\_\_

Alternate methods or measure to be utilized: \_\_\_\_\_

Attach additional page if more variances are requested.

**VI. SURETY (Utah Code Ann. §40-8-7(1)[c])**

**A reclamation contract and surety must be provided to and approved by the Division prior to commencement of operations.** All mining operations are required to furnish and maintain reclamation surety to guarantee that the land affected is reclaimed (Utah Code Ann. §40-8-7(1)[c]).

The reclamation surety amount is based on the nature, extent and duration of operations. The amounts are based on data from current large mine surety and are used as a general guide, along with actual site conditions. Reclamation surety for small mines is reviewed every three (3) or five (5) years and adjusted as necessary for inflation/deflation based upon acceptable Costs Index. **Contact the Division for the dollar amount required for a three (3) or five (5) year period for this project.**

I have provided or will provide surety in the form of:

- ☒ Certificate of Deposit   
 ☐ Letter of Credit   
 ☒ Surety Bond (please identify) \_\_\_\_\_
 ☐ Cash (certified funds) ~~undecided~~



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VII. **PERMIT FEE** (Utah Code Ann. §40-8-7(1)(i))

A permittee's authorization under a notice of intention to conduct small mining operations shall require the paying of permit fees as authorized by the Utah Legislature (R647-3-102.5). Permit fees are assessed to new and existing small mining operations, and annually thereafter, until the project disturbances are successfully reclaimed by the Permittee / Operator and released by the Division.

**Small Mine Notices require a \$150.00 fee, which must accompany this application, or the Division cannot process it.**

VIII. **SIGNATURE REQUIREMENT**

(Please check the box if applicable and place your initials on the line provided)

- ☒ I have enclosed the required permit fee.
- ☐ I have enclosed/requested a Reclamation Contract (Form MR-RC) and the appropriate reclamation surety amount or have made arrangements as to when the surety will be furnished.
- ☐ I understand that I am not authorized to create any surface disturbance until the surety amount is posted and approved in writing from the Division of Oil, Gas and Mining and any other authorized regulatory agency.

**CERTIFICATION**

I state under penalty of perjury under the laws of the state of Utah and the United States of America that:

- I have read this form and declare the information, statements and/or documentation are true, correct and complete to the best of my knowledge and belief; AND
- I commit to the reclamation of the aforementioned small mining project as required by the Utah Mined Land Reclamation Act (40-8) and the rules as specified by the Board of Oil, Gas and Mining.
- This certification must be signed by:** (1.) an executive officer if the applicant is a corporation; (2.) a partner if applicant is a partnership (general or limited); (3.) the owner if applicant is a sole proprietorship; or (4.) the member or manager if applicant is a limited liability company.

Signature: \_\_\_\_\_

Date: \_\_\_\_\_

Name (typed or printed): \_\_\_\_\_

Title/Position (if applicable): \_\_\_\_\_

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Vicinity Street Map

# Precision Rock Quarry

Box Elder County, Utah

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DIV. OF OIL, GAS & MINING  
**Subdivider**  
Precision Development Group  
Mark Bingham  
5725 West 4600 South  
Hooper, Utah 84315  
(801) 388-6943

Revised: Oct. 23, 2008



**Project Info.**

Engineer: Nate Reeve  
Designer: Chris Cove  
Begin Date: September 3, 2008  
Name: Precision Rock Quarry  
Conditional Use Permit  
Number: 5889-01

**Precision Rock Quarry**  
PART OF THE SE 1/4 OF SECTION 14, T.10N., R. 4W., S.1.B & M., U.S. SURVEY  
BOX ELDER COUNTY, UTAH

## Vicinity Street Map

REVISIONS	
DATE	DESCRIPTION

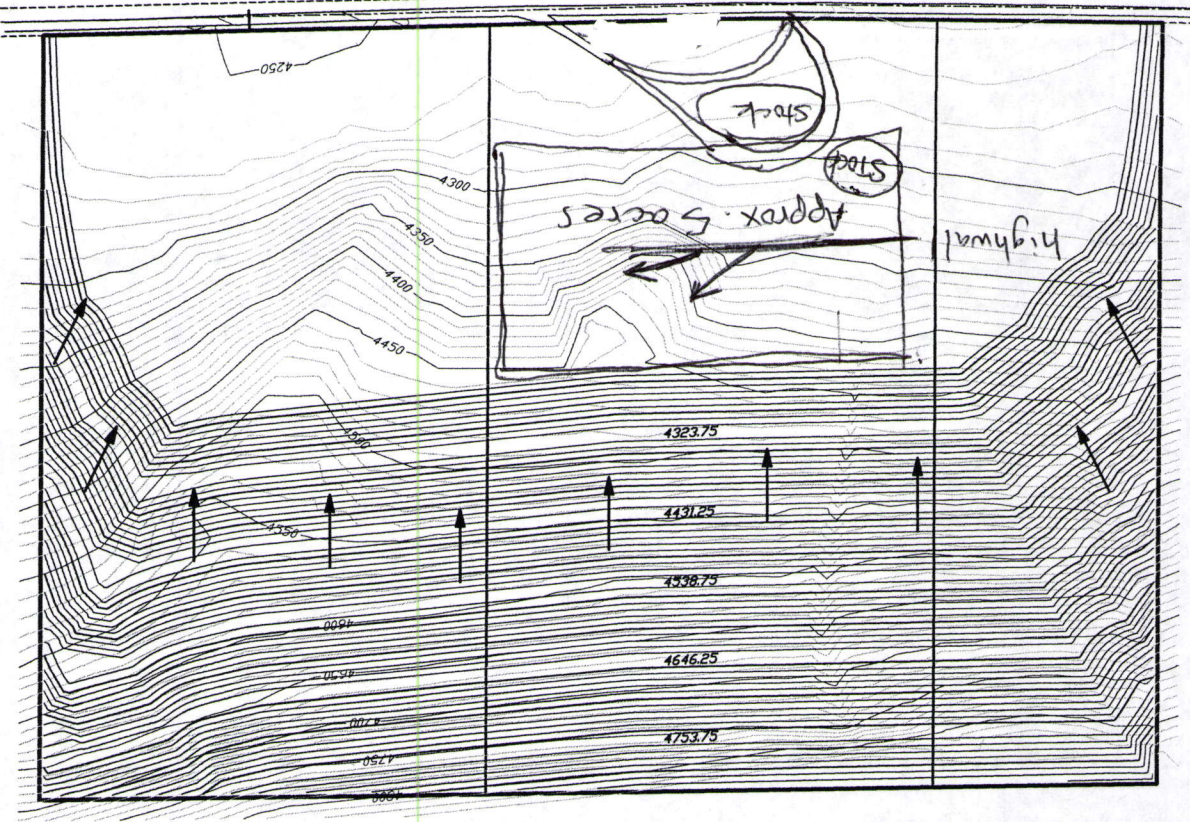


**Reeve & Associates, Inc.**  
4155 S. HARRISON BLVD., SUITE 310, COCOON, UTAH 84403  
TEL: (801) 821-3100 FAX: (801) 821-2866 www.reeve-associates.com

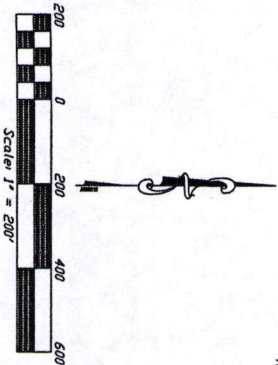
LAND PLANNERS • CIVIL ENGINEERS • LAND SURVEYORS  
WATERS ENGINEERS • STRUCTURAL ENGINEERS • LANDSCAPE ARCHITECTS



PHASE 1 - small mine  
PHASE 2 - pending large mine approval

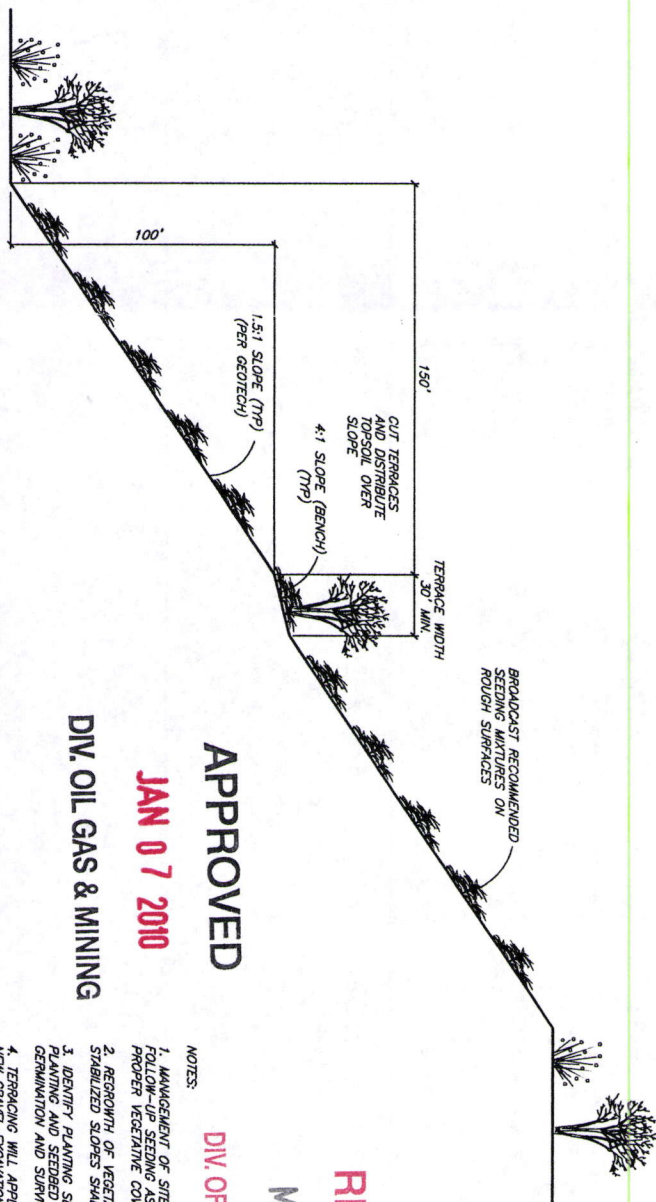


**Quarry of Maximum Removal**  
- POTENTIAL OF 14.1 MILLION TONS OF MATERIAL TO BE EXTRACTED FROM THE QUARRY.  
- BASED UPON MARKET DEMAND THE MAXIMUM OF 1.5 MILLION TONS IS TO BE EXTRACTED FROM THE QUARRY ANNUALLY.



COMMON NAME	SCIENTIFIC NAME	SEEDING RATE (LBS/ACRE)
GRASS		
CRESTED WHEATGRASS	(A. CHRISTIANI)	2
BLUEBUNCH WHEATGRASS	(A. SPICATA)	3
PURSH WHEATGRASS	(A. TRICHOLOMA)	2
HARD SHEEP FESCUE	(FESTUCA OVINA)	2
SHERMAN BIG BLUEGRASS	(P. ALPINA MERR)	2
	<b>TOTAL 11</b>	
PERENNIALS		
PACIFIC ASTER	(ASTER ASCENSUS)	2
PALMER PENSTEMON	(PENSTEMON PALMER)	2
CICER MILKYWEED	(ASTRAGALUS CICER)	3
SAINTON	(ONOCROTIS VICKERDOLA)	3
ALFALFA RESEMBLER	(MEDICAGO SATIVA) RAMBLER INOCULATED	3
LEWIS FLAX	(LINUM LEWIS)	2
BLANKET FLOWER	(GALLAGHER PULCHELLA)	3
PLAIN COREOPSIS	(COREOPSIS ALABAMA)	3
LUPINE	(FABACEAE)	2
	<b>TOTAL 23</b>	
SHRUBS		
RABBITBRUSH	(CHRYSOTHEMUM NAUSEOSUS)	2
ANTLOPE BITTERBRUSH	(PURSHIA TRIDENARIATA)	3
MOUNTAIN BIG SAGEBRUSH	(ARTEMISA TRIDENARIATA)	2
	<b>TOTAL 7</b>	

- GENERAL NOTES:**
- OWNER SHALL PROVIDE PROPER INSPECTION AND CONTROL DURING REVEGETATION SITE PREPARATION AND SUBSEQUENT MANAGEMENT.
  - STRIP STOCKPILE AND REPLACE NATIVE TOPSOIL ON ALL SLOPES AND PROJECT AREAS. ALL PLANT MATERIAL EXCEPT LARGE TREES AND SCRUB PARTS SHOULD BE EXCAVATED AND SPREAD WITH THE TOPSOIL.
  - GRASS/PERENNIAL SEEDING APPLICATION RATE IS TO BE HELD TO 12-15 LBS./ACRE MAXIMUM TO ASSIST IN SHRUB SEED ESTABLISHMENT AND SURVIVAL.
  - REVEGETATION SEASON SHOULD OCCUR BETWEEN SEPTEMBER 1 AND APRIL 30. REVEGETATION DURING OTHER PERIODS (MAY 1 - AUG 31) SHALL BE ESTABLISHED BY WATERING AND RESEEDING AS NECESSARY. INITIAL IRRIGATION DURING THE FIRST GROWING SEASON SHALL BE PROVIDED BY WATER TRUCK OR OTHER METHOD.
  - FERTILIZER AND MULCH SHOULD BE APPLIED AS RECOMMENDED BY THE SEED SUPPLIERS BASED ON ANALYSIS OF THE NATIVE TOPSOIL. IT IS SUGGESTED THAT CHEMICAL 16-16-16 FERTILIZER SHOULD BE BRODCAST APPLIED AT THE RATE OF 200 LBS./ACRE. APPLY THE FERTILIZER AND ONE-THIRD OF THE SEED TO THE SITE AND THEN HARROW IT INTO THE SOIL. APPLY THE OTHER TWO-THIRDS OF SEED AND PACK IT INTO THE SURFACE USING A ROLLER PACKER OR EQUAL METHODS. HYDROSEEDING MAY ALSO BE USED.
  - ANY AREAS THAT DO NOT ESTABLISH VEGETATION (I.E., MORE THAN 25% OF THE GROUND SURFACE IS BARE) OR THAT ARE DAMAGED, DIED OUT, OR IN OTHERWISE POOR CONDITION AFTER THE FIRST APPLICATION, SHALL BE REESTABLISHED BY A SECOND TIME BASED UPON REVIEW AND RECOMMENDATION OF SEED SUPPLIERS. A THIRD APPLICATION IS NOT REQUIRED.
  - REPAIR AND REVEGETATE ERODED AREAS AS REQUIRED.
  - REVEGETATION SHALL OCCUR IN PHASE 1 AND 2 UPON COMPLETION OF GRAVEL EXTRACTION IN PHASE 2.



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- NOTES:**
1. MANAGEMENT OF SITE RESTORATION: PROVIDE FOLLOW-UP SEEDING AS REQUIRED TO INSURE PROPER VEGETATIVE COVER AND EROSION CONTROL.
  2. REPAIRING OF VEGETATION ON EXISTING STABILIZED SLOPES SHALL REMAIN IN-PLACE.
  3. IDENTIFY PLANTING SEASONS, AND TIME OF PLANTING AND SEEDING PREPARATION TO OPTIMIZE GERMINATION AND SURVIVAL OF PLANTINGS.
  4. TERRACING WILL APPLY TO ALL SLOPES WHERE NEW GRAVEL EXCAVATION ACTIVITIES WILL OCCUR.

**Typical Slope Terrace Detail**  
not to scale

**Subdivider:**

**Precision Rock Quarry**  
Mark Bingham  
5725 West 4600 South  
Hooper, Utah 84315  
(801) 388-6943

**Revised: Oct. 23, 2008**

THESE PLANS AND SPECIFICATIONS ARE THE PROPERTY OF REEVE & ASSOCIATES, INC., 4155 S. HARRISON BLVD., DEERLEIGH, BLADE, #310, OGDEN, UTAH 84403, AND SHALL NOT BE REPRODUCED, RE-OWNED, OR USED ON ANY PROJECT OTHER THAN THE PROJECT SPECIFICALLY DESIGNED FOR, WITHOUT THEIR WRITTEN PERMISSION. THE OWNERS AND ENGINEERS OF REEVE & ASSOCIATES, INC., RESERVE ANY LIABILITY FOR ANY CHANGES OR MODIFICATIONS MADE TO THESE PLANS OR THE DESIGN THEREIN WITHOUT THEIR CONSENT.

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no permanent structures.  
portable crushers onsite.  
portable trailer for storage.

Reeve & Associates, Inc. - Solutions You Can Build On

**Precision Rock Quarry**

PART OF THE SE 1/4 OF SECTION 14, T.10N., R. 4W., S.L.B. & M., U.S. SURVEY  
BOX ELDER COUNTY, UTAH

**Quarry Reclamation Plan**

**Operations Map**

**REVISIONS**

DATE DESCRIPTION



**Reeve & Associates, Inc.**  
4155 S. HARRISON BLVD., SUITE 310, OGDEN, UTAH 84403  
TEL: (801) 621-3100 FAX: (801) 621-3168 WWW.REEVE-ASSOCIATES.COM  
LAND PLANNERS • CIVIL ENGINEERS • LAND SURVEYORS  
TRAFFIC ENGINEERS • STRUCTURAL ENGINEERS • LANDSCAPE ARCHITECTS



**Project Info.**

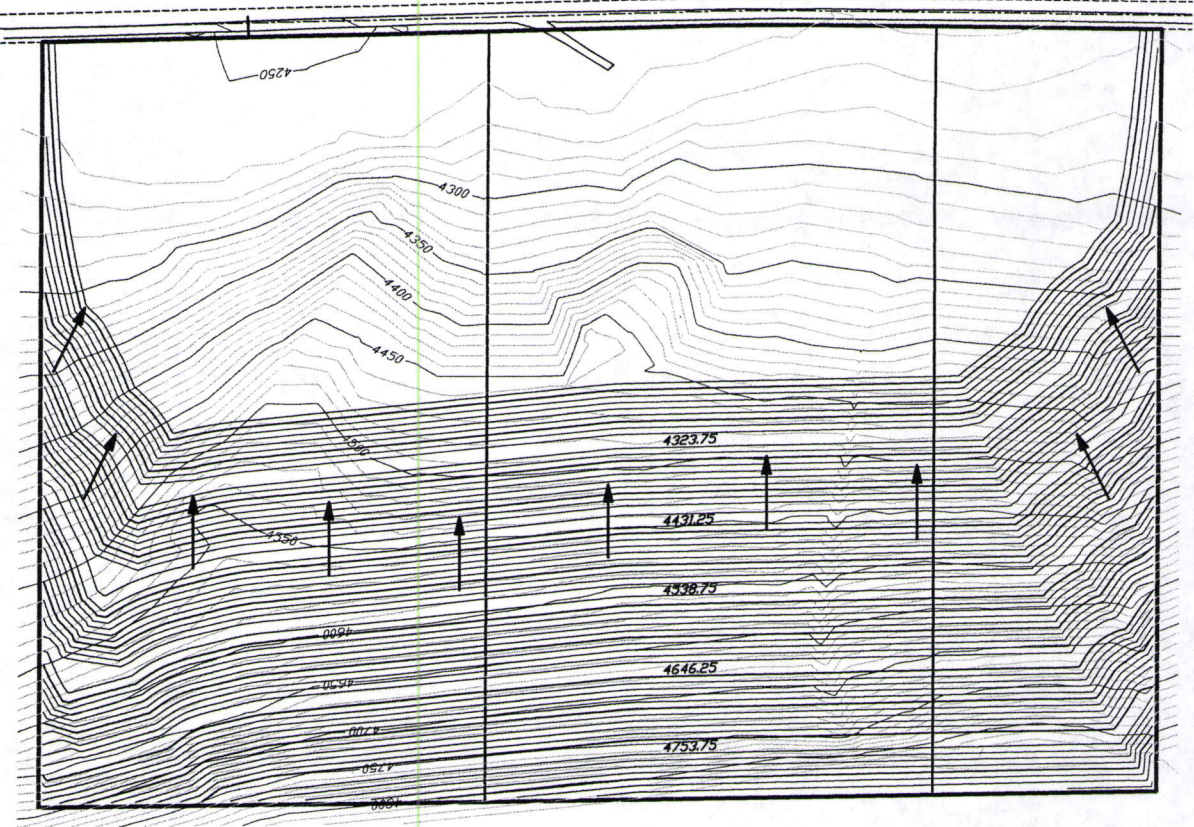
Engineer: Mark Bingham  
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Begin Date: September 3, 2008  
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Number: 5689-01

Sheet 5 of 5



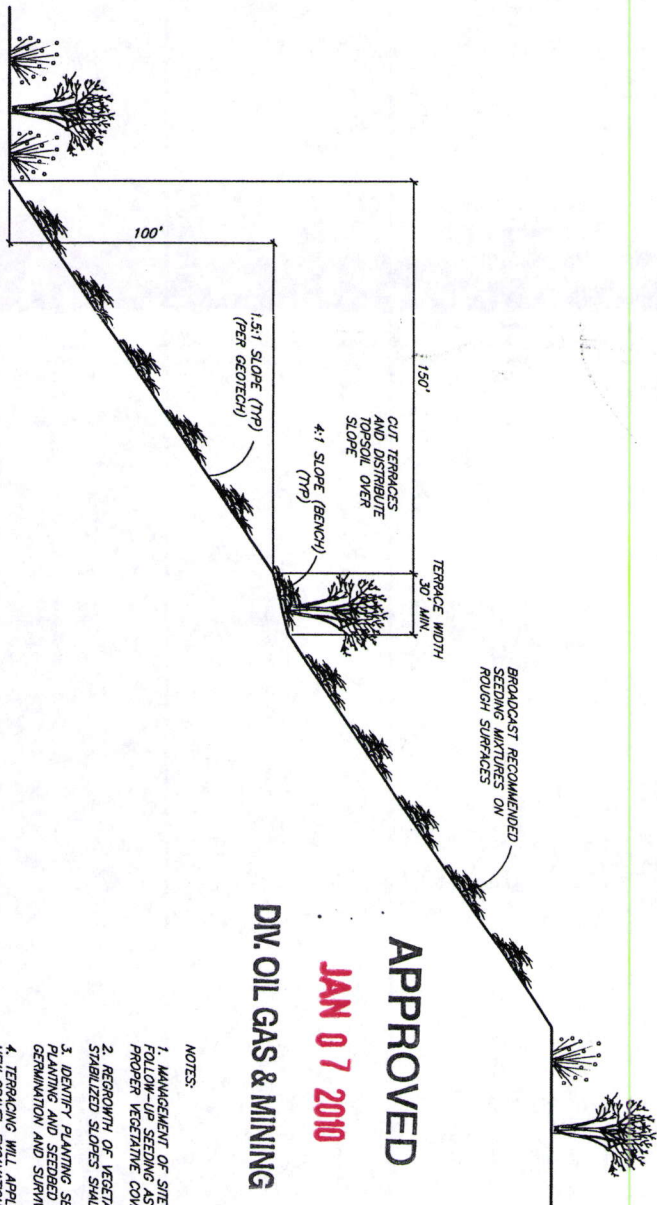
COMMON NAME	SCIENTIFIC NAME	SEEDING RATE (LBS./ACRE WITH STRIPS)
<b>GRASS</b>		
CRESTED WHEATGRASS	(A. CHRISTIANI)	2
BLUEBUNCH WHEATGRASS	(A. SPIGATUM)	3
PURBESCENT WHEATGRASS	(A. TRICHOLOMUM)	2
HARD SHEEP FESCUE	(FESTUCA OVINA)	2
SHERMAN BIG BLUEGRASS	(P. AURIFLUA MERR)	2
	<b>TOTAL 11</b>	
<b>FORBS</b>		
PACIFIC ASTER	(ASTER ASCENDENS)	2
PALMER PENSTEMON	(PENSTEMON PALMERI)	2
CICER MILWAUKEE	(ASTRAGALUS CICER)	3
SUNFLOWER	(OMORCHIS VICKERIANA)	3
ALFALFA REMBLER	(MEDICAGO SATIVA) RAMBLER INOCULATED	3
LENS FLAX	(LINUM LEVIS)	2
BLANKET FLOWER	(GALLIUM PULCHELLA)	3
PLAIN COREOPSIS	(COREOPSIS GLADIATA)	3
LUPINE	(FABACEAE)	2
	<b>TOTAL 23</b>	
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	<b>TOTAL 7</b>	

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  - GRASS/FOB SEEDING APPLICATION RATE IS TO BE HELD TO 12-15 LBS./ACRE MAXIMUM TO ASSIST IN SHrub SEED ESTABLISHMENT AND SURVIVAL.
  - REVEGETATION SEASON SHOULD OCCUR BETWEEN SEPTEMBER 1 AND APRIL 30. REVEGETATION DURING OTHER PERIODS (MAY 1 - AUG 31) SHALL BE ESTABLISHED BY WATERING AND RESEEDING AS NECESSARY. INITIAL IRRIGATION DURING THE FIRST GROWING SEASON SHALL BE PROVIDED BY WATER TRUCK OR OTHER METHOD.
  - FERTILIZER AND MULCH SHOULD BE APPLIED AS RECOMMENDED BY THE SEED SUPPLIERS BASED ON ANALYSIS OF THE NATIVE TOPSOIL. IT IS SUGGESTED THAT CHEMICAL 16-16-16 FERTILIZER SHOULD BE BROADCAST APPLIED AT THE RATE OF 200 LBS./ACRE. APPLY THE FERTILIZER AND ONE-THIRD OF THE SEED TO THE SITE AND THEN HARROW IT INTO THE SOIL. APPLY THE OTHER TWO-THIRDS OF SEED AND PACK IT INTO THE SURFACE USING A ROLLER PACKER OR EQUAL METHODS. HYDROSEEDING MAY ALSO BE USED.
  - ANY AREAS THAT DO NOT ESTABLISH VEGETATION (I.E., MORE THAN 25% OF THE GROUND SURFACE IS BARE) OR THAT ARE DAMAGED, DRIED OUT OR IN OTHERWISE POOR CONDITION AFTER THE FIRST APPLICATION, SHALL BE REESTABLISHED A SECOND TIME BASED UPON REVIEW AND RECOMMENDATION OF SEED SUPPLIERS. A THIRD APPLICATION IS NOT REQUIRED.
  - REPAIR AND REVEGETATE ERODED AREAS AS REQUIRED.
  - REVEGETATION SHALL OCCUR IN PHASE 1 AND 2 UPON COMPLETION OF GRAVEL EXTRACTION IN PHASE 2.



**Quarry of Maximum Removal**

- POTENTIAL OF 14.1 MILLION TONS OF MATERIAL TO BE EXTRACTED FROM THE QUARRY.
- BASED UPON MARKET DEMAND THE MAXIMUM OF 1.5 MILLION TONS IS TO BE EXTRACTED FROM THE QUARRY ANNUALLY.



**APPROVED**

**JAN 07 2010**

**DIV. OIL GAS & MINING**

**RECEIVED**

**MAY 27 2009**

**DIV. OF OIL, GAS & MINING**

- NOTES:**
1. MANAGEMENT OF SITE RESTORATION: PROVIDE FOLLOW-UP SEEDING AS REQUIRED TO INSURE PROPER VEGETATIVE COVER AND EROSION CONTROL.
  2. RESEEDING OF VEGETATION ON EXISTING STABILIZED SLOPES SHALL REMAIN IN-FACT.
  3. IDENTIFY PLANTING SEASONS, ADVISE TIME OF PLANTING AND SEEDBED PREPARATION TO OPTIMIZE GERMINATION AND SURVIVAL OF PLANTINGS.
  4. TERRACING WILL APPLY TO ALL SLOPES WHERE NEW GRAVEL EXCAVATION ACTIVITIES WILL OCCUR.

**Typical Slope Terrace Detail**

not to scale

## Precision Rock Quarry

Box Elder County, Utah

**Subdivider,**

**Precision Development Group**

**Mark Bingham**

**5725 West 4600 South**

**Hooper, Utah 84315**

**(801) 388-6943**

Revised: Oct. 23, 2008



**Project Info.**

Engineer: Travis L. Davis

Designer: Chris Cove

Begin Date: September 3, 2008

Name: Precision Rock Quarry

Conditional Use Permit

Number: 5889-01

**Precision Rock Quarry**

PART OF THE SE 1/4 OF SECTION 14, T.10N., R. 4W., S.L.B. & M., U.S. SURVEY

BOX ELDER COUNTY, UTAH

### Quarry Reclamation Plan

**REVISIONS**

DATE DESCRIPTION



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